

OIPE

RAW SEQUENCE LISTING

DATE: 12/13/2001

PATENT APPLICATION: US/09/992,009

TIME: 14:06:51

Input Set : A:\52661 seq listing.txt

Output Set: N:\CRF3\12132001\I992009.raw

ENTERED

3 <110> APPLICANT: Slater, Steven C
 5 <120> TITLE OF INVENTION: Telomeres of Agrobacterium Linear Chromosome
 7 <130> FILE REFERENCE: 38-10(52661)B
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/09/992,009
 C--> 9 <141> CURRENT FILING DATE: 2001-11-26
 9 <160> NUMBER OF SEQ ID NOS: 4
 11 <170> SOFTWARE: PatentIn version 3.1
 13 <210> SEQ ID NO: 1
 14 <211> LENGTH: 20000
 15 <212> TYPE: DNA
 16 <213> ORGANISM: Agrobacterium tumefaciens
 18 <400> SEQUENCE: 1

19	cttcaccgtc	tcaggcgtag	cgatgggtac	ggctgtctct	tacaaatcct	ttcaggaact	60
21	gccgaaagcc	aaagcaccag	ctgtccttca	aaagctcgcc	caggccgtcg	cggcagaagg	120
23	tttttcaggt	atccagatca	acaaggcact	gtcgtcaatc	gatgcccatc	aggaaaccag	180
25	cggaaagtggc	aggattcaga	cgctgcgggt	tgctgcccgc	cagaaaggcg	ccgctgtccg	240
27	gatcgatgct	gtcttcaata	ttcaggcagg	acagatcgcc	gacaaagacg	tcattccgcaa	300
29	gggcatctgc	gacatcataa	aaggcgcgta	aggcatggct	taaagacact	ccggtccagc	360
31	agcacgagcc	gtcgtgcaca	ggaagccaat	ctgttttcgcg	caggatgtta	cgaaatcgat	420
33	gattgaagct	tatcgctgac	cgtatccgcg	ggtagtctcc	agtgttagat	atgcgccgag	480
35	cgaactcatc	atgccgctac	gccaaagacg	gtcattgata	tcacgtgttt	ggaccatatt	540
37	ttctgtgcaa	actaaacgat	gacatagggc	gatttttagt	ggcggacaaa	tacagacttc	600
39	ccgaagagtt	ttttaccact	cggtttctcg	ttagacgcac	cgtaccacac	gacgctgaag	660
41	ctatttttga	aggggtggaac	accgatcccg	aggtgacgaa	gtacctgacg	tggaaacccc	720
43	actccgagct	tggccagaca	cagcggggcg	ttgaagaaaa	ttatagtgcg	tggaatgcag	780
45	gtacatcggt	tccagctgtc	atctgccatc	gcgaacggcc	acatgaacta	atcggccgta	840
47	ttgatgcacg	tccgatgggc	cacaaggtct	cttacgggtg	gcttgtccga	agaacctggt	900
49	ggggccgggg	tggtgcaagc	gaggtcgttc	aactcgctgt	agaacacgcg	ttatcgcatc	960
51	cgcgcattct	tcgcaccgaa	gcatectgcg	acgtttctgaa	cacggcgctc	gcaagagtga	1020
53	tggaaaaagt	agggatgaca	aaggaggccg	tgcttcgacg	gtaccttttt	caccccaatt	1080
55	tttcgaatat	gccgcgagac	gccttctctg	attccaaggt	acgttaactc	agtgaaatca	1140
57	cggggcgctc	aacttctctc	taateccgct	attccaagac	cggaaaagta	caogtcatcc	1200
59	aaaaaagcaa	tatgtgtcta	tcgaacgcag	ggaattaccg	gattttccag	aaagcgacgt	1260
61	cggaaagttc	ctgcaacaac	cacacccgat	ccaaatcctg	aatcaatct	tgctagcaaa	1320
63	aggtcaggtg	atgaatatga	caccagccaa	taatgggtcc	caaatgccaa	gagcgacgtc	1380
65	gcgataaggt	aaagttggcc	gtccgtgcct	ggcgacgaa	aagccacgaa	atgaaagccg	1440
67	gcgacgctcc	ccactaggca	tgatacaaac	tgaccgagaa	ttatcgttgg	ttttgcagtg	1500
69	agcccatcca	gcagacaaaa	gacgaacgcc	aagaatccag	caccgagcaa	ctgcaaaaacg	1560
71	gcggctccaa	taaaacgtgt	tcgcaggga	tatttggttt	tcgaatagcg	aaaatatgtg	1620
73	accaagatac	cctcctctga	agtggtgcct	ttgaaatcag	ggcgaccatc	tcaaaattcg	1680
75	tacaacctca	acttgagttg	aggtcgaggg	ggcgcgctc	acaaggatta	accgttgtgt	1740
77	ggatagcggc	acaaccgggt	gtaactgtct	ccgctttaca	ttttctgact	gcctaggcgg	1800
79	gctggccaat	aggaaaaatc	gaagccatct	ggcggcactc	aaccgcggcg	acacagtcgc	1860
81	gctcaggcag	gctagaggtg	gttgtctaac	gttcaacctg	cgtcagacag	ctacctggca	1920
83	taactagatt	gagccaacag	ccgagattgc	gtcagacgac	ttctctcaat	gggggttggtc	1980
85	ataccgattg	aaacgactgg	aacccaaaaa	tcagtgccat	caaactaggc	gcgttcgacg	2040
87	ttgacggaac	acatccaggt	gattgtcgag	gatggagcgc	accgatccat	aggttcgcgc	2100

RAW SEQUENCE LISTING

DATE: 12/13/2001

PATENT APPLICATION: US/09/992,009

TIME: 14:06:51

Input Set : A:\52661 seq listing.txt

Output Set: N:\CRF3\12132001\I992009.raw

```

89 gccgatttcc aatgcccggc cacaggecgc attgaccctt tcccgtcaa aagctttgac 2160
91 gagccgaata atgcctaggc aagctctgta gccctgttcg ggatgcgggc ggtcggcgag 2220
93 aatgcggtcg cagagcaaaag cgaecgtccga tccgattgcc gacgcctcgc ggtcgatacg 2280
95 ctcgatcgtc cgttcggcaa accgcgatg ggaagatggc atgtgctccg gtgtcgtcgt 2340
97 gtgcttgcca ttgccactcg atcgctgtg agctgcgata cgttcgccct tgtagaatat 2400
99 ctcgatcggtg ttggcagtg tccgcgcctc gacctgctct cgggcaaacg ggtagggcac 2460
101 ggagtaaaag tgcctgtcga tctgcacatg ataatcgagg cctgcccggc gtatcttcca 2520
103 ttcagcaaaag acatatcgct cgaecgggaag cggtcgcagc ggggatagt cgagctcttc 2580
105 aaacaactgt cgccttgtgc gcccaatgcg gcgcaagacg cgtttgtcgt tcagatcggt 2640
107 gaggagtctc ccaatcgctt tgttcacgtc agcaaggctg tagaagacgc ggtgacgcag 2700
109 ccgacccagt agccagcgct cgaecgatgc aaccgcgcgc tcgactttcg ccttgctcgcg 2760
111 cggccgacgc ggtcgcgttg gaagaaccgc gctgccgtaa tgtgtcgcca tcccgggtgt 2820
113 ggtgcgattg acctgcggat caaatggca tgccttgatg accgcaacct tggcattgtc 2880
115 gggaacaagc agagccgggtg cgcgcgcgaa tgtctcaagc gcaagcagat ggcattcgat 2940
117 ccagtcggga agggctccgc tccagcgggc atgggcaaat gaaaggctcg atgcgcgcag 3000
119 cactccaaca aacacatggg cctgcgcgct cttgcccgac aatctgtcga tgacaacaga 3060
121 gaccgtgtcg cctgcataat cgaecgaagag cttttcgcca gccgcagat cctggcgcat 3120
123 cgtcacaggc agcttcaaaag cccaatggcg atacaaatca cagtaacggg aatagcggta 3180
125 accctcagga tgaaggccga tatattcgtc ccacagaatc tgcagcgtca catgtttcgc 3240
127 cttcagttcg cgttgaaacct gcgcccaatc tggctcggcg atgcgcgat gacctgtctt 3300
129 tgtcccgcca gcttgtaaa gggcagcttc cagcacgcga tcgctgacat cctcagccaa 3360
131 tggccacgac agcccggcac gctccagacg gcgcaatgtc tcacgcaccg tcgaaggagc 3420
133 agcaccgacg cgcaccgcaa tcgacttgtg gccgagccct tcttcaaate tgtgtcttaa 3480
135 aatctcgcgg acacgcgcga tcgctactct ctcgctggc attgcgttcc ttcctctcag 3540
137 cacacctgaa agggacgaac ttctcaccag caggaaaccc cgacaaacac cccaatcagg 3600
139 gggcgacatc atctcggaac aggggagcga ctaattatcg gaattggggg gcggcatcat 3660
141 ttcggaatca gggggcgaca tgcctcgga tttgcagtca ctcctgacga gcggcagggg 3720
143 tggccctgtg aaacgcaggc cgcgcgcgac gacgaaccac tctcaagctc taaccattta 3780
145 tgcctcacac gatctgtgcg gcattatttc aattaagcca aagatgccaa acagcaatat 3840
147 ctccaggaag atccccgctt tggccaccat gcacatatgc gaaatagcgg ccatgatcgg 3900
149 atctagcggc gtccggcaat gaaagcgcgc acttgtacgg caatgacacc actgcatatt 3960
151 ctggcgggga aagccccatt gccgtcgcaa ggaacggact gagatggctt gccgtggagg 4020
153 cggtgccctt aacataggca agcattacgg cctctctatt agtccaagca tagtcgcgg 4080
155 tcgtaaaacg gctgagtcca ttcggcgaat aaagatcgac tgtctttgcc tgtgctatgt 4140
157 cgatgagctt gcactcaacg atcaagggga acaaatgctg tcgaccggtt agggaaattt 4200
159 gaatatcggg ccgcactcca aaacgggttg cgtcgtaatt cttcgtttct gtgccacgcg 4260
161 aaaccgcgcg aaccagcaaa ctgcgcaaaag ggtcagcccc caccagatgg ttcaagcgat 4320
163 caaccatcaa actggttgagg tgcctctcgt caccgctaga aactgcagca ggataatccg 4380
165 cttttattcc cgtgtaagcc tgttgaaagca gctccagaat gaattcgaga tgcgaatggt 4440
167 cgattgcggg tagaggcagt tcttgctccac gaatcaattc atacagggtg tcttgcaacc 4500
169 cggagatcag tccactcata ctgcaggact ctccttaaaa aactccggtc gtgtccagat 4560
171 tatacgttgc gcggcaaggc gggcctgtgt ctcgctccaa tatcgagatt gggcgaggag 4620
173 catgatagcc aggtgtgtgt tgcctctcct tatgacaatt tcagtcgcac tgggtgcgatc 4680
175 agcaaccgca gtaagagcgc gaataccgc aattgaaatc accgtctgat cttcggcttc 4740
177 agtggtccag cagcaacaa tacgaagcgc ctgccacgg gatgattgtc gatcaggtat 4800
179 gtaatcgaca cggcgggtgc atttgaaacg ttgagcaaac cttgtgagtt cggtttccag 4860
181 cgttcggcaa taggttttga tctggtggat caacggctcg ctctgtgcca attcccagatt 4920
183 tgaagcgtaa gggagattaa accgcagtg atcgtcgata acagtcaggt cccgttcgcc 4980
185 gagaccgtag agtttcgcta cccaagcatc gacatctggc caaacgtcgc cgcctctttt 5040

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/992,009

DATE: 12/13/2001

TIME: 14:06:51

Input Set : A:\52661 seq listing.txt

Output Set: N:\CRF3\12132001\I992009.raw

187	ttccaaccgc	gcaaaaagat	tggttacctc	ccgcacccga	tcctgcgcga	gtgactcgaa	5100
189	gggcgggaatc	gccacctcct	caaggataga	tttctcaacc	acctcacgct	caaagccgaa	5160
191	ttcgccgctg	gttatecagc	atateccagag	cgcaacgcga	ctaccaagca	caagtgcgaag	5220
193	atagcgcgctc	aataacgacg	cctcggcggc	tcctttggaa	ctaaagccat	accaactctc	5280
195	attgaatacg	atgtcttgat	cgcagactga	cactctgtatc	cgcctgtagct	tggcaggcgg	5340
197	ggatttatga	acgagcaaga	tcggcccgtt	atagatagct	ctatctcttg	cgcgatgaac	5400
199	gcgatcagtg	tcgaaaactg	gaagctgtga	aggatcgata	actaacgttg	cggacgcacac	5460
201	gtcatcaaga	tgaggaagtc	catgcagggtg	agtggcgctcg	tcgcgcgata	tgccatcctc	5520
203	atgctttctg	ctactatctc	tgagcttctg	atagccattt	ccattcgcga	gacctccatc	5580
205	gcccactcgc	cgccaatagc	gtcccagcgt	cgtgaaattg	cctcgacgaa	ccctgtcaat	5640
207	tagcgaaaga	tcagcctcac	tgccgcgaaa	taggattttt	agggctctccg	ggcgttcccg	5700
209	caaactcctgc	ggacggacca	catacgcgtt	cgtcgcgctc	acccgcatta	cgcgcgcatt	5760
211	attgaaaccc	ttttcatagc	ggggcggtgag	catccgaaat	cgggacgctg	tatgcgcagg	5820
213	ccggttgacc	gcaaaaagga	ggcaaaacgg	cgcgaaatg	ctgggcccaga	cctttgtctg	5880
215	gcgtagctca	gagccggttg	tgatcgaggt	tacatccatc	gcttcgagga	ggctctgccg	5940
217	cgcagcggc	atgccatccc	cttgctggaa	tagaaaccgc	gcctgcagcg	caaatatgat	6000
219	ttgagcgta	ggttttgccc	atcgcctcgc	cgcgcagaca	aatggcaaat	cgagaactgc	6060
221	gttgggcaaa	ggaggagcgg	ttataccgtc	tcggagtctg	ctccgagcga	ttttatgaac	6120
223	ctccgtaagc	aggaggttcc	agtcttccaa	tcgggtccgc	ctggcccacg	gaggattgcc	6180
225	aatcacgaga	tcgtactggc	cgtcgtgctc	ctctccgata	agcgagccga	ggcttcccaa	6240
227	ctgctttgct	tcgggacgat	caacatcggt	ggtatcgact	ggtcgatgca	agacaacacc	6300
229	gcgcaaatcg	tcgaagtga	gcttgctccac	gggcttggga	tttgatcga	gttcgatcga	6360
231	tagcaagtag	aggccgagcg	cgcaaaagcg	caaagcgcc	tcattgatgt	caaatccgcg	6420
233	caactgcttg	taaaggattt	ctcggagcgc	tgtctgtctc	ggtctgtgcc	cttctgatct	6480
235	ccagcgcgcc	gcaacgagtt	cacgaaacgc	cgcgagcaga	aacacgcccg	cgcgcgcggc	6540
237	tgggtctaatt	atgcgcgcgg	ccgcgcgaaat	accctgagca	ttcagtcacc	gaaacgcggc	6600
239	tgataccatc	aggtttgca	tcggatgcgg	cgtataaaag	ccgcctcctc	gctgttgctg	6660
241	ttttggggcg	tgttacgca	ggtaatactc	ataggcttgg	ctcaacactc	caactgttat	6720
243	gtgcgagaag	tcgagattat	cccactgctc	tttccaaacc	agggacaatt	gccccccctc	6780
245	tgcgcgcgc	agaatgttgc	caatgaactg	ccccccattt	cgaccggaca	gtcggcataa	6840
247	gcagaaaggc	tcagcacag	gcttgaggac	aggcttatgt	ctaacgacta	tcgacacggt	6900
249	gaattgctga	cgggtgatgt	tcgcgcgagg	cgggtggaaa	ccgagcaaaa	gctgacaatc	6960
251	attgagcaga	gttttgaaac	cggcgagacg	gtatcttcga	ccgctcgccg	tcattggcgtg	7020
253	gcgcccatt	tgttttatcg	gtggcgagcg	ctcttgagcg	agggaggtgc	tgcagccgtg	7080
255	gattctgacg	agccggttgt	cgggaattcg	gaagtgaaga	aactggagga	tcgcgtcccg	7140
257	gagttggagc	gcctgctcgg	tcgcaagacg	atggaggtcg	aaatcctccg	cgaagccctt	7200
259	tccaaagcgg	actcaaaaaa	acggatatcg	cggcgatctc	tggttgcgaa	ggacggttgc	7260
261	cgatgaaggc	cgtcgcagac	acgctgggcg	tctcccgctc	caacctcctc	gagcggctga	7320
263	aaggcagatc	aaagccgcgt	gggccataca	acaaggccga	ggatgcagag	cttctgcccg	7380
265	ccatccgcag	gctggtggat	caaaggccaa	cctatggcta	tcggcgagtc	gcccgcgtcc	7440
267	tcaatcgcca	aaggcgagcc	gcgatcagc	ctgtcgtcaa	cgcacaaacg	gtccatcgca	7500
269	tcattgggtaa	ccacgccatg	ctactggagc	acacagccgt	tcgcaagggc	cgcctccacg	7560
271	atggcaagggt	catggtcatg	cgtctcaacc	tgcgctggtg	ctcggacggc	ctggagttcg	7620
273	cctgctggaa	tggcgaggtc	attcgtctcg	ccttcacatc	cgaacgcttc	gaccgcgaga	7680
275	tcctgcctcg	gacggccggt	gccaatcgag	gcatttcggg	ctcagacgtg	cgcgacatga	7740
277	tggttgagcc	ggctgagaaa	cgtctccatg	caacccgagc	cccgcattgt	atcgagcctc	7800
279	tctctgacaa	tggtctggct	tataccgcgc	gggacacgag	gctgtttgcg	caagcactca	7860
281	atctcacgcc	ctgcttcaag	ccggtcgcca	gcccgcagtc	gaacggcagc	tcggaagcct	7920
283	tcgtcaaaaac	gttgaaagcg	gactatatcc	ggatatcagc	tctaccggac	gccccaaacg	7980

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/992,009

DATE: 12/13/2001

TIME: 14:06:51

Input Set : A:\52661 seq listing.txt

Output Set: N:\CRF3\12132001\I992009.raw

```

285 cgctccggct catcgacgga tggatcgagg actacaacga aatccatccc cattccgcgc 8040
287 tcaagatggc tccccctcgg cagttcatca gggetaaatc aatctagccg acttgccgg 8100
289 tgaaatggg tgcaactccag ccaagaacat aacatgcttc caacgtgagc ttcggaaacg 8160
291 cagcatccga caacggcagc aggtcaccat tgaacgtctt atcgagccat gcgcaggaaa 8220
293 ggcgaaactag atctggccgg tcaaacagtt catgatcttc gagaccagac tcacgcagac 8280
295 aactctcact gccacaatg ctactagtgt atggcagcag gccacgatca gcaagaaagc 8340
297 gcatgaagag cgccttgcgc accaatgata tcgcctcttc gccggagagg ccgctattgc 8400
299 cttttaaaga cgatatggct tggteaagca atttcagaat tacgccggtg atccaagtcc 8460
301 tgtcataaat ctccgcgcgc ggggcgcagat ttgccaagcg tgcaaaggta agccagctct 8520
303 cgttatcggc gacaccagcg tcaacgcgag ccttggaag cgaaaggcga tcgagagcga 8580
305 tccgatagac atccaatctt cgggataga ccaactccag gtacggcgcg tcgcctcgca 8640
307 ttgcgagaat ccgtcgaaac cgtttgagcc gatcaagatc tccgtttagc cggtcgccat 8700
309 cgacaaggaa tacgagcgga gcttctgcgc actcgtagac accttcaacc agtcgcaaat 8760
311 cctcatcatg gtcccgagcc acgaggatag tcgagtaggc aagcaactct ggtgcgcaat 8820
313 gatcgaaaag acgaacaccc ccgcgatcag cccccaattc atccagggca ttgtacatgc 8880
315 cgatcataag cctgtcccca accaggggag ccagcccggc acagtagcac caaattccaa 8940
317 aagggagctg aacgcgcgta tcgatcgagg tccaatggca cttggcggtc gccgccaaac 9000
319 tggccgggtt tcgcccgcgc gcgaggettc ttcaagggtg gttctacctt cgatatcacg 9060
321 ccccgaaat caacccttg ggtgcccatc tcagcgacca acgcggcaat gatcgccaaa 9120
323 tggtcgggaa cccctcctga acgggcataa ttgaaacag agttagggtt cattccaatc 9180
325 aattccgcaa atgccctgat gctcaggcca gcgcgcgcga gatcgcgag aaaccctca 9240
327 tagcccatcg ctccaaagcc ctaatcacat aattctatgt atactctcac atagaatcat 9300
329 gtgttgcaat ccacaaatgc ggattgcgat gagaggtggc tttttggcgg atgcgcttgt 9360
331 gtgaccgagc ttctgaaggg gccttttagc cagcctaacg cctaacgcgc catttccctt 9420
333 ttcgccctca attatgcgt taacgccaga tgctggaaca ggctcttggc gggaggettc 9480
335 ttgccgatcc tgacatggcg agcgcgtgct gttgccgatg atctgacgcc acggcaggat 9540
337 caggacaaga ttccgaaca cgcctatcat atcctgtgga agatacagca aggccacgtt 9600
339 ccgaagtttc tgtggttgga ttgctgacga cgggcacaag cgttcaagca aggttgaacg 9660
341 cggccggggc ggagccctac cttggccgta gcggtggatc gttttcgcgc gacggcccg 9720
343 cgcccgagcc ctcaatcggt ccgcgtgctc ggccaaagcg gggttgggag cttttattgc 9780
345 tgccttcag gttgatccgt ttccagccga cgacgccaga atttgcccga acgttcgtaa 9840
347 accgcttcgg gcgtcaacgc attgaagatc ttcaaaacgc ctttgccgac acacagattt 9900
349 gaagatgcgt cgaaatacgc caaggettcg tcattgagtt ggaacagggt gcttgacgcg 9960
351 ctttctgat ataaaaagcc cactgettca tactctgcca acatccaacg ggtgcttct 10020
353 tcttcggtca tgetttcttc ggcgcgacgt agggttgcaa cgtatcctct tcaaatacgg 10080
355 aagtttcggt ggaagcacc ttgaaccatt tgcagcgata acttcccttg aaattgcgct 10140
357 agtccctttg gacttccgaa atcgtcattg ctggcccacc ggacttaagt tgtacaacgt 10200
359 cgccagtcga aaatttagct tccattatga ggcctact ttgatgttac tttcgccctca 10260
361 atctatggga aagttcggct ctgttccagc ttcaaaacag acggattcga tagaccacgt 10320
363 caaggatcaa cgcgtttctt cgtcaaatcc gcttccgcac gcgaagccgc ctgcagccg 10380
365 ctgcagcccc gcataagctc atttcggcca cctgatttct ggtcgtaggt cgttagtata 10440
367 ttttcgaaaa tcggaatttc acaataaatc aatattcgtg gctgaccggt tgggattggg 10500
369 aaccatctca ttcccgttca ccatgaggat tgggcacagt aacatcctcc ggtatttctt 10560
371 gacgaaggct cggcccttg gcgagacgtc gccctagcgc agtcacgaag gcgtcgtagc 10620
373 gttcggcagc cttggcgcg gcggcctgag cagctggttc cggcagggtt ggcgtggtt 10680
375 caagccagaa gcgaacaaag acggcgatca tctcgatcga gatgccgacg tcgcgttcaa 10740
377 gccgcateat acgacgatcg acctgatcga gacgcttggt gatggcagct tctgtcgtt 10800
379 cggcgcgctc gggcgagagc gaggattcga tggcggcctc cgccaccagc gaacgggaat 10860
381 ggtcgcggcg cgcggcatac tcggcgagct ggcgcgatgc ggaaggatcg agatagaccg 10920

```

RAW SEQUENCE LISTING

DATE: 12/13/2001

PATENT APPLICATION: US/09/992,009

TIME: 14:06:51

Input Set : A:\52661 seq listing.txt

Output Set: N:\CRF3\12132001\I992009.raw

```

383 agaggcggtg cttgcggggc ggttttgtca tgggtgcctc acagatccat gccgtcgccg 10980
385 ggatcgagcg aaacctgccg cgcgacgctc tgcctgacg tgcgcagcg actggtgtc 11040
387 caatcagacc ggggtcaccg aaacctgat gggcctgacg gacaagatgg aactttatcc 11100
389 gcgccttgct gaatgcacg aacagataga gccgaccgcc tggaaacgttg tgcacaaggc 11160
391 aggcatacag ttccatgtct tcgcgatagg cgttgccttg ttctggtatg cacaagcaca 11220
393 ggtgcgctgg ttcatgcaag accttggcat aggcgcggca aaagcgcttt ccatcttcgc 11280
395 cggagcattt ctgtttgcca cagtcgcgcg attcgtcggt gcgtattga tcaactctga 11340
397 cttcaaaagc gtgcgcgccg cagcgagctg atccgcgcgc ccgcctgcgg cgtaaccccg 11400
399 agcgttttcg tgaccgcccc ggcatgaaca agcggcggtg ccattgacaag atcaacgagc 11460
401 tccggcaact tcgatgaaag atatgtatcc cgcgtggcgc ttccggcctg tgagggatgc 11520
403 ggcatttaac tgccgccaca tcatatatcc ctacggcacg ccgcctcgtc aacgcaaacg 11580
405 tgcaaccgcg tttgcacctg ttgattttag aattagtgtt ttatgtcggg gatttagcct 11640
407 gtttgattgt agcgttttgg cgtactggat cgaagttttg gctattgttg gatagtgtag 11700
409 cgtaggattt ggttgcgggg gcctgagtc acggagaact gtaattttca gacggatagg 11760
411 atgcgcctaa aatgacttct gctttgcgcg aataacaagg gcagttggcc tctattcctg 11820
413 ctgtcgaact cgtttcgatg cgataacctat ccattcataa aggatgcctt ggtccagttt 11880
415 cgaaaagcgc gtcgatgtt ttaaccactc cagcgagtca ccaggattac aacgggcata 11940
417 gtccctccga ataagtgcct cacaatcttc gcgaagcctg gggtcagttc tcagtggcaa 12000
419 tcaacagctt gtygctgca cgaaggcaag cagtcfaatg ccgtgtcgtc ccttctgttt 12060
421 caagcacgga ccttagacag ttctgcatg atcagcagcg aattgctatc cacggcagtg 12120
423 ctacgcacca tggcagcaga tcttggcgtc acgaaaggcg cggctggtea gtcggtgaac 12180
425 cggctgtcga gcgctgggct tttcgtctaa cgtcctcctc cctcctacct cgcggccgt 12240
427 caaatcattt cactgttggg gacggttggg acgtacttga cggtgacaaa cacgcgcgag 12300
429 cgtcggtttc gagcaatata ttcaatgcgt ggcgtgccac gcgcgcgact tactgacca 12360
431 ggttcaaaaga tagcggagga aacacatcaa ctactgggtg ccaagggttc aatccactgc 12420
433 ttgggcgatt ggcgcaaaagc attcgcctgc ttggcgggcg acatgccgaa aacctgccca 12480
435 tattctctcg aaaactggga cggactcgca tagccgacct ggaaacctgc ggttgcctgc 12540
437 tccagacctt cactaagcat cagaacgaga gcctcctgaa gcctaagctg tgtgcggaat 12600
439 tctagtggac tcatattggt gaccgctttg aaatgcgcgt gaaacgtaga gcggctcctc 12660
441 ccggccactt cggcgccagc ttccaccgaa caggctctgc gaaagtgtt cctgatccac 12720
443 acaatagacc gtgcgatctg attgacatgc gcgccagctt gcacgatctg tcgcaacgcc 12780
445 gctcctccaa caccggtaat gagacgatat aatatctcac gcttcgccag cggtgaaagg 12840
447 gcgtcgatat ctgcaggcgt gtccagcagc gcaaggagac gcgaagcggc atcaatgata 12900
449 cctcatcca ccttggttaag taacaggccg atagggcgtg tgattggcgc gtgctgttct 12960
451 gaaggatagc gaattgccag atccgccaac tccacggtgt caaggctcag ttgcatcgaa 13020
453 agataaggtt tgtctttcga tgcctcgatt accgatccca tgaccggaag atcaacggag 13080
455 gcgaccagat agctggaggg atcatagaca aagcttgtct gcccgagAAC cgcctgcttt 13140
457 cgcctctgtg cgacgaggca aagtgtcggc tcgtagacga caggcatcgg caatgtcgtc 13200
459 tcggaacagc gaatgagctt caaccccggc agctgcgttt caaacgtacc gtcgtgaggt 13260
461 gcatggcgag caatggtggc ttcatggtg tgttcacttt tcataatgct tttatgccat 13320
463 gccttcttac caacggaaag tctgagcaag cgatatttgg acgatcaagc aagcatatcg 13380
465 gacattaaag gagtcagtggt tctcccaccc agaaatcttc catttcccg taagaacacc 13440
467 gatctcgtca ccgttttccc cctggatcga ccagaacacg aaagttgcag cttcagacaa 13500
469 ttccgcaagg ataacggaat atctgtctac cgtctaaatg cattcccggc acatctttct 13560
471 ttctgcccag tcgaacgcaa agaccgtttg tccacggaca gggggcacgg ccgattaacg 13620
473 atgagtacct gcaagatcgt caaatagaaa ggaaacgcca atgcagccga cagatttgca 13680
475 agtgagccag cagggtttccc ggctcatgcc actgtcaagt ggttcccaaa ccgcaaaccg 13740
477 aaccgaactt ccggaaacaa ttccgggaatt ctttctgcta ctaaacaacc gtcaaattga 13800
479 cgcgttccca cagcttctcg ccccgggcgc tctgatcgtt gacggtaaag gtcgaggaga 13860

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/992,009

DATE: 12/13/2001

TIME: 14:06:52

Input Set : A:\52661 seq listing.txt

Output Set: N:\CRF3\12132001\I992009.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No

L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date